



GP1653  
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EXHIBIT  
NOV 05 2001  
Attorney Docket No. 24170  
BOX PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

KIM et al.

Serial No.: 09/627,165

Group Art Unit: 1653

Filed: July 27, 2000

Examiner: H. Robinson

For: **CRUDE EXTRACT FROM *Viscum album coloratum*, AND PROTEINS AND LECTINS ISOLATED THEREFROM**

TRANSMITTAL LETTER

Commissioner for Patents  
Washington, D.C. 20231

Sir:

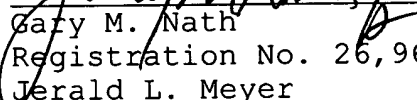
Submitted herewith for filing in the U.S. Patent and Trademark Office is the following:

1. Transmittal Letter;
2. Response to a Notice to Comply with Requirements under 37 C.F.R. 1.821-1.825
3. A copy of the Sequence Listing in Computer Readable Form;
4. A paper copy of the Sequence Listing;
5. Verification Summary Report generated by Checker Version 3.1; and
6. A copy of the Notice to Comply with Requirements for Patent Application Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures.

Please charge any required fee, or credit any overpayment, in connection with this matter to Deposit Account No. 14-0112.

November 1, 2001  
**NATH & ASSOCIATES PLLC**  
1030 15<sup>th</sup> Street, N.W.  
6<sup>th</sup> Floor  
Washington, D.C. 20005  
202-775-8383

Respectfully submitted,  
**NATH & ASSOCIATES PLLC**

  
Gary M. Nath  
Registration No. 26,965  
Jerald L. Meyer  
Registration No. 41,194  
Customer No. 20529



UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/627,165 07/27/00 KIM

J 24170

020529  
NATH & ASSOCIATES  
1030 15TH STREET  
6TH FLOOR  
WASHINGTON DC 20005

HM22/1002



EXAMINER

ROBINSON, H

ART UNIT

PAPER NUMBER

1653

DATE MAILED:

10/02/01

*Due date: 11/2/01*

Please find below and/or attached an Office communication concerning this application proceeding.

Commissioner of Patents and Trademarks

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TECH CENTER 1600/2900

OCL - 3



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

DEA/FCE-1994

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.



EXAMINER	
ART UNIT	PAPER NUMBER
DATE MAILED:	

TECH CENTER 1600/2900  
NOV 05 2001

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Please find below a communication from the EXAMINER in charge of this application

Commissioner of Patents

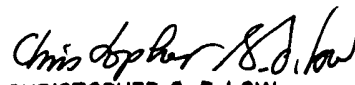
This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.

APPLICANT IS GIVEN 30 days FROM THE DATE OF THIS LETTER WITHIN WHICH TO COMPLY WITH THE SEQUENCE RULES, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). In no case may an applicant extend the period for response beyond the SIX MONTH statutory period. Direct the response to the undersigned. Applicant is requested to return a copy of the attached Notice to Comply with the response.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Hope Robinson whose telephone number is (703) 308-6231. The Examiner can normally be reached daily from 9:00 A.M. to 5:30 P.M.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Mr. Christopher S.F. Low, can be reached at (703) 308-2923. The OFFICIAL fax phone number for Technology Center 1600 is (703) 308-4242.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 1600 receptionist whose telephone number is (703) 308-0196.

  
CHRISTOPHER S. F. LOW  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 1600

QIPE  
NOV 01 2001  
TECH CENTER 1600/2900  
JC92

Application No. 09/627,165

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING  
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☐ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other: \_\_\_\_\_

**Applicant Must Provide:**

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

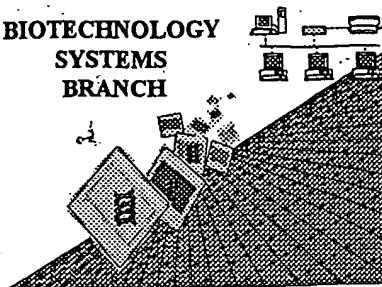
For Rules Interpretation, call (703) 308-4216  
For CRF Submission Help, call (703) 308-4212  
For PatentIn software help, call (703) 308-6856

**PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE**

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## RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



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TECH CENTER 1600/2900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/627,165A

Source: 1600 RUSH

Date Processed by STIC: 10/1/2001



THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW:

### Checker Version 3.0

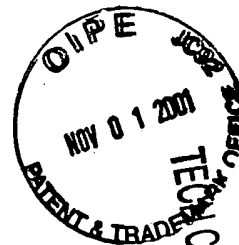
The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>



1653  
RECEIVED  
NOV 05 2001

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/627,165A

DATE: 10/01/2001  
TIME: 14:01:51

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Output Set : N:\CRF3\10012001\I627165A.raw

3 <110> APPLICANT: KIM, Jong-Bae  
5 <120> TITLE OF INVENTION: CRUDE EXTRACT FROM Viscum album coloratum, AND PROTEINS  
6 AND LECTINS ISOLATED THEREFROM  
8 <130> FILE REFERENCE: Korean Mistletoe Lectin  
10 <140> CURRENT APPLICATION NUMBER: 09/627,165A  
11 <141> CURRENT FILING DATE: 2000-07-27  
13 <160> NUMBER OF SEQ ID NOS: 16  
15 <210> SEQ ID NO: 1  
16 <211> LENGTH: 762  
17 <212> TYPE: DNA  
18 <213> ORGANISM: Viscum album coloratum  
20 <220> FEATURE:  
22 <221> NAME/KEY: misc\_feature  
24 <400> SEQUENCE: 1

Does Not Comply  
Corrected Diskette Needed

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26 atcacgcttc tccgagatta tgtctcaagc ggaagctttt ccaatgagat accactcttg 120  
27 cgtcagtcta cgatccccgt ctgggatgag caaagatttg tgttggtgga actcaccaat 180  
28 cagggggggag actcgatcac ggccgccatc gacgttacta acctgtacgt ggtggcttac 240  
29 caagcaggcg accaatccta ctttttgccg gacgcaccag acggcgcgga aaggcatctc 300  
30 ttcaccgggca ccaccagatc ctccctccca ttcaccggaa gctacacaga tctggagcga 360  
31 ttccgcccgtc atagggacca gatccctctg ggtagagagg aactcattca atccgtctcg 420  
32 gcccttcggtt ttccggggcag caacactcgt gcccaagctc gttcttttat catcctcatt 480  
33 cagatgatct ccgaggccgc cagattcaat cccatcttat ggagggtcgc ccaatacatt 540  
34 agcagtgagg ggtcatttct gccagacacg tacattctcc agctggagac gagttggggg 600  
35 caacaatcca cgcaagttca gcaactcgac gatggcggtt ttaataaccc aattcggttg 660  
36 actatatcca ctggtgtctt cgtgacgttg agcaatgttc gcgacgtgat cgccagctta 720  
37 gcgatcatgt tgttgtatg cgaggaccgg ccattcttct ct 762

on <223>  
line

40 <210> SEQ ID NO: 2  
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42 <212> TYPE: PRT  
43 <213> ORGANISM: Viscum album coloratum

44 <221> NAME/KEY: (VARIANT) ? (see seq 1)  
47 <400> SEQUENCE: 2

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49 1 5 10 15  
51 Tyr Phe Arg Phe Ile Thr Leu Leu Arg Asp Tyr Val Ser Ser Gly Ser  
52 20 25 30  
54 Phe Ser Asn Glu Ile Pro Leu Leu Arg Gln Ser Thr Ile Pro Val Ser  
55 35 40 45  
57 Asp Ala Gln Arg Phe Val Leu Val Glu Leu Thr Asn Gln Gly Gly Asp  
58 50 55 60  
60 Ser Ile Thr Ala Ala Ile Asp Val Thr Asn Leu Tyr Val Val Ala Tyr  
61 65 70 75 80  
63 Gln Ala Gly Asp Gln Ser Tyr Phe Leu Arg Asp Ala Pro Asp Gly Ala  
64 85 90 95  
66 Glu Arg His Leu Phe Thr Gly Thr Thr Arg Ser Ser Leu Pro Phe Thr  
67 100 105 110

add this mandatory  
numeric identifier  
whenever <221>  
<222>, or <223>  
is shown

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/627,165A

DATE: 10/01/2001  
TIME: 14:01:51

Input Set : A:\seq.list.txt  
Output Set: N:\CRF3\10012001\I627165A.raw

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73      130      135      140
75 Pro Gly Ser Asn Thr Arg Ala Gln Ala Arg Ser Phe Ile Ile Leu Ile
76 145      150      155      160
78 Gln Met Ile Ser Glu Ala Ala Arg Phe Asn Pro Ile Leu Trp Arg Ala
79      165      170      175
81 Arg Gln Tyr Ile Ser Ser Gly Gly Ser Phe Leu Pro Asp Thr Tyr Ile
82      180      185      190
84 Leu Gln Leu Glu Thr Ser Trp Gly Gln Gln Ser Thr Gln Val Gln His
85      195      200      205
87 Ser Thr Asp Gly Val Phe Asn Asn Pro Ile Arg Leu Thr Ile Ser Thr
88      210      215      220
90 Gly Val Phe Val Thr Leu Ser Asn Val Arg Asp Val Ile Ala Ser Leu
91 225      230      235      240
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97 <210> SEQ ID NO: 3

98 <211> LENGTH: 762

99 <212> TYPE: DNA

100 <213> ORGANISM: Viscum album coloratum

101 <221> NAME/KEY: misc\_feature ) (2207

103 <400> SEQUENCE: 3

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106 cggcagtgcta ctgtccccgt ctcggatacg cagagatttg tgttggtgga actcagcaat 180
107 cagggggggag actcgatcac ggcgcgccatc gacggttacca atctgtacgt ggtgggttac 240
108 caagcaggca accaatccta ctttttgccg gacgcacctc gcggcgcgga aacgtatctc 300
109 ttcaccggca ccaccgatc ctctctccca ttcaacggaa gctaccctga tctggagcga 360
110 tacgccggac atagggacca gatccctctc ggtatagacc aactcattca atccgtctcg 420
111 gcccttcgtt ttccgggcag caacactcgt gcccaagctc gttcctttat catcctcatt 480
112 cagatgatct ccgaggccgc cagattcaat cccatcttat ggagggtctg ccaatacatt 540
113 agcagtgggg gggtcattct gccagacacg tacattctcc agctggagac gagttggggg 600
114 caacaatcca cgcaagttca gcactcgacg gatggcggtt ttaataaccc aattcggttg 660
115 actatatcca ctggtgtctt cgtgacgttg agcaatgttc gcgacgtgat cgccagcyta 720
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120 <211> LENGTH: 254

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125 <221> NAME/KEY: misc feature

126 <222> LOCATION: 718

127 <223> OTHER INFORMATION: Xaa = any amino acid

129 <400> SEQUENCE: 4

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130 Tyr Glu Arg Leu Arg Leu Arg Val Thr His Gln Thr Thr Gly Asp Gln
131 1      5      10      15
133 Tyr Phe Lys Phe Ile Thr Leu Leu Arg Asp His Val Ser Ser Gly Ser

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## RAW SEQUENCE LISTING

DATE: 10/01/2001

PATENT APPLICATION: US/09/627,165A

TIME: 14:01:51

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Output Set: N:\CRF3\10012001\I627165A.raw

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137          35          40          45
139 Asp Thr Gln Arg Phe Val Leu Val Glu Leu Ser Asn Gln Gly Gly Asp
140          50          55          60
142 Ser Ile Thr Ala Ala Ile Asp Val Thr Asn Leu Tyr Val Val Ala Tyr
143 65          70          75          80
145 Gln Ala Gly Asn Gln Ser Tyr Phe Leu Arg Asp Ala Pro Arg Gly Ala
146          85          90          95
148 Glu Thr Tyr Leu Phe Thr Gly Thr Thr Arg Ser Ser Leu Pro Phe Asn
149          100         105         110
151 Gly Ser Tyr Pro Asp Leu Glu Arg Tyr Ala Gly His Arg Asp Gln Ile
152          115         120         125
154 Pro Leu Gly Ile Asp Gln Leu Ile Gln Ser Val Ser Ala Leu Arg Phe
155          130         135         140
157 Pro Gly Ser Asn Thr Arg Ala Gln Ala Arg Ser Phe Ile Ile Leu Ile
158 145          150         155         160
160 Gln Met Ile Ser Glu Ala Ala Arg Phe Asn Pro Ile Leu Trp Arg Ala
161          165         170         175
163 Arg Gln Tyr Ile Ser Ser Gly Gly Ser Phe Leu Pro Asp Thr Tyr Ile
164          180         185         190
166 Leu Gln Leu Glu Thr Ser Trp Gly Gln Gln Ser Thr Gln Val Gln His
167          195         200         205
169 Ser Thr Asp Gly Val Phe Asn Asn Pro Ile Arg Leu Thr Ile Ser Thr
170          210         215         220
W--> 172 Gly Val Phe Val Thr Leu Ser Asn Val Arg Asp Val Ile Ala Ser Xaa
173 225          230         235         240
175 Ala Ile Met Leu Phe Val Cys Glu Asp Arg Pro Ser Ser Ser
176          245         250
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180 <211> LENGTH: 768
181 <212> TYPE: DNA
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183 <221> NAME/KEY: (misc_feature)
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188 cctccgtcaa tcccggtctc ctctgcgcag agatttgtgt tgggtggaact cacaatcag 180
189 ttgggaaagt gggaagactc gatcacggcc gccatcgacg ttaccaatct gtacgtggtg 240
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191 catctcttca ccggcaccac cagatcctct cttcctttca acggaagcta cgctgatctg 360
192 gagcggtacg ccggacatag ggaccggatc cctctgggta gagagccact catacgatcc 420
193 gtctcggcgc ttgattatcc cggcggcagc acgcgcgccc aagccagttc cattattatc 480
194 gtcattcaga tgatctccga ggcgccaga ttcaatccca tcctatggag ggctcgccaa 540
195 tacattaaca gtggggtgtc atatcttcca gacgtgtaca tgctggagct ggaggcgagt 600
196 tggggccaac aatcgacca agtccagcag tcgaccgatg gcgtttttaa taaccaatt 660
197 cggttgggta tatccaccgg caacttcgtg tggttgagca atgttcgcga cgtgatcgcc 720
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## RAW SEQUENCE LISTING

DATE: 10/01/2001

PATENT APPLICATION: US/09/627,165A

TIME: 14:01:51

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 204 <213> ORGANISM: Viscum album coloratum  
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 209 1 5 10 15  
 211 Tyr Phe Arg Phe Ile Lys Leu Leu Arg Asp Ser Val Ser Ser Gly Ser  
 212 20 25 30  
 214 Phe Ser Asn Asp Ile Pro Leu Leu Pro Pro Ser Ile Pro Val Ser Ser  
 215 35 40 45  
 217 Ala Gln Arg Phe Val Leu Val Glu Leu Thr Asn Gln Leu Gly Lys Trp  
 218 50 55 60  
 220 Glu Asp Ser Ile Thr Ala Ile Asp Val Thr Asn Leu Tyr Val Val  
 221 65 70 75 80  
 223 Ala Tyr Gln Ala Gly Asp Gln Ser Tyr Phe Leu Arg Asp Ala Pro Asp  
 224 85 90 95  
 226 Gly Ala Glu Arg His Leu Phe Thr Gly Thr Thr Arg Ser Ser Leu Pro  
 227 100 105 110  
 229 Phe Asn Gly Ser Tyr Ala Asp Leu Glu Arg Tyr Ala Gly His Arg Asp  
 230 115 120 125  
 232 Arg Ile Pro Leu Gly Arg Glu Pro Leu Ile Arg Ser Val Ser Ala Leu  
 233 130 135 140  
 235 Asp Tyr Pro Gly Gly Ser Thr Arg Ala Gln Ala Ser Ser Ile Ile Ile  
 236 145 150 155 160  
 238 Val Ile Gln Met Ile Ser Glu Ala Ala Arg Phe Asn Pro Ile Leu Trp  
 239 165 170 175  
 241 Arg Ala Arg Gln Tyr Ile Asn Ser Gly Val Ser Tyr Leu Pro Asp Val  
 242 180 185 190  
 244 Tyr Met Leu Glu Leu Glu Ala Ser Trp Gly Gln Gln Ser Thr Gln Val  
 245 195 200 205  
 247 Gln Gln Ser Thr Asp Gly Val Phe Asn Asn Pro Ile Arg Leu Gly Ile  
 248 210 215 220  
 250 Ser Thr Gly Asn Phe Val Trp Leu Ser Asn Val Arg Asp Val Ile Ala  
 251 225 230 235 240  
 253 Ser Leu Gly Ile Met Val Phe Val Cys Arg Asp Arg Ser Ser Ser Pro  
 254 245 250 255

257 &lt;210&gt; SEQ ID NO: 7

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259 &lt;212&gt; TYPE: DNA

260 &lt;213&gt; ORGANISM: Viscum album coloratum

261 <221> NAME/KEY: misc\_feature ) C2207

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 265 gtctcgacgt cccagagggc gattaccacg atggaagtcg gatacagtgt tggccctgca 120  
 266 agtccaactc cgatcagaat cagctgtgga cgatcagaag ggatggaacc attcgatcta 180  
 267 atggaaggtg cttgacgacc tatgggtata ctgcgggcag ctatataatg atctacgact 240  
 268 gtaatagagg ggggtgggac cttactactt ggcagataag gggcaatgga atcatcccta 300  
 269 atccaagatc catgatggtg atcggaacac catccgggag ccgcggaacc cgtggcacta 360

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/627,165A

DATE: 10/01/2001

TIME: 14:01:51

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Output Set: N:\CRF3\10012001\I627165A.raw

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271 ccgctcctcg cgaggtaacc atatatggtt tccgcgatca ttgcatggaa actagtggag 480
272 ggaaagtgtg ggttgggact tgtgtgagtg gcaagcagaa ccaaagatgg gctttgtacg 540
273 gggatgggtc cattcgcccc aaaccttacc aagaccaatg cctcacctct cagggagact 600
274 ccgtagatc cgtaatcaat ttatttagct gcaccgctgg atcgccaagg caacgatggg 660
275 tatttaccaa taaaggggcc attttgaatt taaagaatag gttggccatg gatgtggcgg 720
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291 20 25 30
293 Ser Arg Ile Gln Leu Trp Pro Cys Lys Ser Asn Ser Asp Gln Asn Gln
294 35 40 45
296 Leu Trp Thr Ile Arg Arg Asp Gly Thr Ile Arg Ser Asn Gly Arg Cys
297 50 55 60
299 Leu Thr Thr Tyr Gly Tyr Thr Ala Gly Ser Tyr Ile Met Ile Tyr Asp
300 65 70 75 80
302 Cys Asn Arg Gly Gly Trp Asp Leu Thr Thr Trp Gln Ile Arg Gly Asn
303 85 90 95
305 Gly Ile Ile Leu Asn Pro Arg Ser Met Met Val Ile Gly Thr Pro Ser
306 100 105 110
308 Gly Ser Arg Gly Thr Arg Gly Thr Thr Phe Thr Leu Gln Thr Leu Gly
309 115 120 125
311 Tyr Ser Leu Gly Gln Gly Trp Leu Ala Ser Asn Asp Thr Ala Pro Arg
312 130 135 140
314 Glu Val Thr Ile Tyr Gly Phe Arg Asp His Cys Met Glu Thr Ser Gly
315 145 150 155 160
317 Gly Lys Val Trp Val Gly Thr Cys Val Ser Gly Lys Gln Asn Gln Arg
318 165 170 175
320 Trp Ala Leu Tyr Gly Asp Gly Ser Ile Arg Pro Lys Pro Tyr Gln Asp
321 180 185 190
323 Gln Cys Leu Thr Ser Gln Gly Asp Ser Val Arg Ser Val Ile Asn Leu
324 195 200 205
326 Phe Ser Cys Thr Ala Gly Ser Pro Arg Gln Arg Trp Val Phe Thr Asn
327 210 215 220
329 Lys Gly Ala Ile Leu Asn Leu Lys Asn Arg Leu Ala Met Asp Val Ala
330 225 230 235 240
332 Glu Ser Asn Pro Ser Leu Arg Arg Ile Ile Ile Phe Ser Val Thr Gly
333 245 250 255
335 Asn Pro Asn Gln Met Trp Leu Pro Val Pro
336 260 265
339 <210> SEQ ID NO: 9

```

→ &lt;2207

Please  
correct  
any  
subsequent  
sequence  
showing this  
error.

FYI →

Use of n and/or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

## VERIFICATION SUMMARY

DATE: 10/01/2001

PATENT APPLICATION: US/09/627,165A

TIME: 14:01:52

Input Set : A:\seq.list.txt

Output Set: N:\CRF3\10012001\I627165A.raw

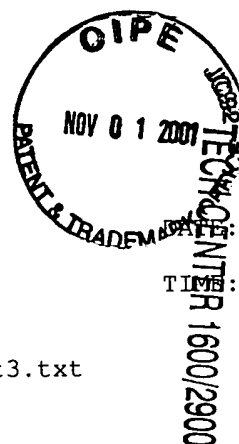
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14

PAGE: 1  
10/31/2001

VERIFICATION SUMMARY REPORT  
PATENT APPLICATION

17:22:49

INPUT SEQ: A:\CRFascidoc.txt3.txt



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GENERAL INFORMATION SECTION

3,<110> KIM, Jong-Bae  
5,<120> CRUDE EXTRACT FROM Viscum album coloratum, AND  
PROTEINS  
6, AND LECTINS ISOLATED THEREFROM  
8,<130> Korean Mistletoe Lectin  
10,<140> 09/627,165  
11,<141> 2000-07-27  
13,<160> 16

ERRORED LINES SECTION

W--> 179 Gly Val Phe Val Thr Leu Ser Asn Val Arg Asp Val Ile Ala Ser  
Xaa  
W--> 514 Xaa Val Glu Thr Cys Val Ser His Lys Gln Asn Gln Lys Trp Ala  
Leu  
W--> 548 gccagattca atcccatcnt gtggaggctt cgccggcaaa ttaacagtgg  
ggagtcntct 60  
W--> 554 ttgtgtgacgn tgagcaatgt tcgcgacgtg atctccagct tggcgatcat  
gttggttcgaa 240  
W--> 558 gtggatgcgg ccaacgatgt cacctgcact ntttccgaac ccaccgtgcg  
catcgta 357  
W--> 574 Ala Arg Phe Asn Pro Ile Xaa Trp Arg Leu Arg Arg Gln Ile Asn  
Ser  
W--> 583 Asn Thr Gln Ile Arg Leu Gln Ile Ser Ala Gly Asn Phe Val Thr  
Xaa  
W--> 592 Leu Arg Ser Val Val Asp Ala Ala Asn Asp Val Thr Cys Thr Xaa  
Ser

STATISTICS SUMMARY

Application Serial Number: 09/627,165  
Alpha or Numeric: Numeric  
Application Class:  
Application File Date: 2000-07-27  
Art Unit:  
Software Application:  
Total Number of Sequences: 16  
Total Nucleotides: 5546  
Total Amino Acids: 1849  
Number of Errors: 0  
Number of Warnings: 8  
Number of Corrections: 0